

AMENDMENTS TO THE CLAIMS

1. (currently amended) A polypropylene resin which has a M_w/M_n of less than 5, a melt flow rate of less than 7 g/10 min, a 1% secant flexural modulus of greater than 300,000 psi, a pentad isotacticity of at least 98%, a melting point of at least 165⁰C, a haze of less than 30%, and less than 2% by weight xylene solubles, wherein the polypropylene resin contains 500 ppm to 2500 ppm of a nucleator/clarifier additive.

2. (previously presented) The polypropylene resin of claim 1 wherein the polypropylene resin has a haze of less than 25%.

3. (original) The polypropylene resin of claims 1 or 2 wherein the polypropylene resin has a crystallinity of at least 70%.

4. (original) The polypropylene resin of claim 3 wherein the polypropylene resin has an isotactic pentad/triad ratio of greater than 95%.

5. (original) The polypropylene resin of claim 4 wherein the polypropylene has a crystallization temperature of greater than 130°C.

Claims 6 and 7 (CANCELLED)

8. (currently amended) A polypropylene resin characterized by the following relationship:

$FM/((XS-0.74\%E)*MWD) \geq 30,000 \text{ p.s.i.};$

a haze of less than 25%;

$XS \leq 2 \text{ wt\%} + \%E$; and

$MWD \leq 6$;

wherein the polypropylene resin has a pentad isotacticity of at least 98%, a melting point of at least 165⁰C, and contains from 650 ppm to 1500 ppm of a nucleator/clarifier additive and wherein : FM is the 1% secant flexural modulus;

%E is the weight percent of units derived from ethylene in the polypropylene;
XS is the weight percent of the xylene soluble content of the resin; and
MWD is defined as M_w/M_n .

9. (original) The polypropylene of Claim 8, wherein the polypropylene comprises a homopolymer having a MWD of less than 5.5.

10. (previously presented) The polypropylene of Claim 12, which exhibits a haze value of less than 20%.

11. (original) The polypropylene of Claim 9 having a pentad isotacticity of at least 98%, a pentad to triad ratio of at least 98%, a crystallinity of at least 73%, and a crystallization temperature greater than 130°C.

12. (original) The polypropylene of Claim 8, wherein the polypropylene comprises a copolymer having a %E of 2% or less.

13. (currently amended) The polypropylene of Claim 12 having an isotactic pentad/triad ratio ~~isotacticity~~ of at least 95~~3~~% and a crystallinity of at least 55%.

Claim 14 (CANCELLED)

15. (currently amended) The polypropylene of Claim 12 having an isotactic pentad/triad ratio ~~isotacticity~~ of at least 98~~4~~% and a crystallinity of at least 60%.

16. (currently amended) A polyolefin composition, comprising:

(a) a polypropylene resin characterized by the following relationship:

$$FM/((XS-0.74\%E)*MWD) \geq 30,000 \text{ p.s.i.};$$

$$XS \leq 2 \text{ wt\%} + \%E;$$

a pentad isotacticity of at least 98%;

a melting point of at least 165⁰C; and

MWD \leq 6;

wherein: FM is the 1% secant flexural modulus;

%E is the weight percent of units derived from ethylene in the polypropylene;

XS is the weight percent of the xylene soluble content of the resin; and

MWD is defined as Mw/Mn; and

(b) less than 40% by weight of an impact modifier having a density of from 0.885 g/ml to 0.91 g/ml,

wherein the polyolefin composition contains from 500 ppm to 2500 ppm of a nucleator/clarifier additive and exhibits a value of haze of less than 25%.

Claims 17 and 18 (CANCELLED)

19. (previously presented) The polyolefin composition of Claim 16, wherein the polypropylene resin comprises a propylene-based copolymer having less than 3 % by weight of units derived from ethylene and wherein the composition exhibits 1% secant flexural modulus of at least 170,000 p.s.i. and haze values of less than 20%.

20. (previously presented) The polyolefin composition of Claim 19, wherein the polypropylene resin has less than 1% by weight units derived from ethylene and wherein the composition exhibits 1% secant flexural modulus of at least 180,000 p.s.i.

21. (previously presented) The polyolefin composition of Claim 16, wherein the polyolefin composition contains from 650 ppm to 1500 ppm of a nucleator/clarifier additive.

22. (previously presented) The polyolefin composition of Claim 16, wherein the density of the impact modifier is within 0.01 g/ml of a density of the polypropylene resin.

23. (previously presented) The polyolefin composition of Claim 16, wherein the polypropylene resin is characterized by an MWD \leq .

24. (previously presented) The polyolefin composition of Claim 21, wherein the density of the impact modifier is within 0.01 g/ml of a density of the polypropylene resin.

25. (previously presented) The polyolefin composition of Claim 21, wherein the polypropylene resin is characterized by an MWD \leq .